



Presidents of Universities of Ontario draft a proposal for the establishment of a Council of Universities of Ontario

The Committee of Presidents of the Universities of Ontario has presented to the universities in the province a proposed reorganization of the Committee, the name of which would be the Council of Universities of Ontario, the object of which would be "to create a collectivity representative of the universities".

Members of the academic and administrative staff, and students, either individually or by divisions, are invited to submit written comments on this proposed reorganization of the Committee of Presidents of Universities of Ontario; these submissions should be directed to J. H. Sword, Executive Vice-President (Academic) and Provost.

A special meeting of the President's Council, at which the proposal and suggested amendments will be discussed, and at which members of staff and students can express their views, will be held in the fall.

The text of the proposal follows:

For some time CPUO has been giving thought to modifying its organization to permit it more effectively to represent the universities in Ontario and to conduct its work in such a way as to encourage confidence in its recommendations. The Constitution, adopted in 1966, was amended twice in 1967-68 (see *Collective Autonomy*, p. 7), and the Second Annual Review observed that "one of the major items on the agenda . . . must be a careful review of the structure and functions of the Committee of Presidents, its subcommittees and affiliates, and its secretariat." The present structure is complex, involves a large number of affiliates and subcommittees reporting to the Committee of Presidents, involves also several joint subcommittees of the Committee of Presidents and the Committee on University Affairs, and operates with the assistance of part-time staff holding full-time responsibilities in the universities. The organization has resulted from the accumulation of tasks rather than through conscious attempt to design a satisfactory structure.

During the autumn of 1968 the Subcommittee on Research and Planning proposed an enlargement of the membership of CPUO and a change in terminology to that of a Congress of Universities. This proposal was looked upon as one possible form of further evolution of CPUO but the presidents

and their colleagues expressed doubts about the efficiency of an enlarged body. The need for an executive body, presumably composed of the presidents, was considered likely, and establishment of such a body would tend to negate the gains achieved through involvement of academic colleagues.

On one point, agreement has been unanimous: there is need for a rapid and

effective development of a research capability within the organization. The Committee of Presidents at its 43rd meeting requested the Executive Vice-Chairman to bring forward proposals for the development of a suitable structure within the Secretariat. The Executive Vice-Chairman has listened to opinions on this subject volunteered by adminis-

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President's Council comments on proposed Ontario Council

The President's Council has forwarded to the Committee of Presidents of the Universities of Ontario a statement on the proposal of the Committee to form a Council of Universities of Ontario.

In forwarding the document to Dr. John B. Macdonald, Executive Vice-chairman of CPUO, President Claude Bissell said in a covering letter that he endorsed the statement.

The text of the statement follows:

The proposal for establishing a Council of Universities of Ontario sets forth two principal objectives: to provide a structure which will constitute an acceptable voice of the university community considered as a collectivity, and to create a substantial staff capacity for analysis of problems and development of policy.

The President's Council of the University of Toronto sees considerable merit in these objectives, and, within clear limits, endorses them.

The first limitation is that both the objectives and the means for achieving them must be widely discussed both within and between the universities before anything structural or constitutional is done. In this University, we would anticipate a full open debate in the President's Council after publication of the proposals, with consultation of the Association of the Teaching Staff and the Students' Administrative Council and subsequent referral to the Senate and the Board of Governors, before the University could commit itself to action of the kind recommended.

The second limitation is that the basis of representation in the proposed Council would have to take account of the differences in size and scope of the participating institutions. When the Committee of Presidents of Universities of

Ontario was a purely consultative and advisory body, it was probably reasonable for all universities to be represented equally. In recent years, however, CPUO has acquired increasing policy and executive functions, and the new proposal would greatly increase this trend, often effectively binding a university to the decisions of the proposed Council of Universities of Ontario; even when not literally bound by such decisions, universities would be dominated by them. In a body with such governing or quasi-governing functions, it is essential that representation be significantly related to size and scope.

The third limitation is that the actual structure of the Council be such as to reflect the true nature of the university community. This cannot be achieved by assembling the president and one "colleague", who may be a professor, a student, or an administrator, from each university. The president is certainly an indispensable representative of his university, but faculty representation is equally indispensable; and students should be consulted on the question of student representation. It may also be that means should be found for the incorporation of some public and alumni representation.

The President's Council of the University of Toronto does not wish these reservations to be an impediment to the development by CPUO of a substantially enhanced research and staff capacity; on the contrary, it supports such a development, always assuming that the size of the staff will not exceed the real demands of projects approved by whatever review committee is established by CPUO pending the emergence of a more mature structure.

Health team, family care & our cells

The establishment of two new departments within the Faculty of Medicine and of a joint department, involving both the Faculty of Medicine and the School of Hygiene, has been approved by the Board of Governors.

President Claude Bissell said the newly-established Department of Family and Community Medicine will aim to provide medical students with greater exposure to general practice and a greater association with family doctors than they obtain at present, while the Department of Medical Cell Biology will be interested in genetics, immunology and basic microbiology. The joint Department of Preventive Medicine will concern itself with the causation and prevention of disease both at the individual level and also on a mass basis at the community level.

The establishment of a Department of Family and Community Medicine will, it is hoped, help to attract more students into these areas. It should also lead to the development of an ideal program of graduate training in the field.

The many interests that will be met by the new department will include primary contact diagnosis; the care of ambulatory patients; the comprehensive health care of families and individuals; and the coordination of consultant medical services. It will also promote cooperation with allied health professions and have a distinct community orientation. Training will take place in teaching hospitals, in hospital-based family practice units and, possibly, in community-based satellite medical practices. An effort will be made to make residents aware of the psycho-social aspects of medical care and the effective use of all community ancillary services will be a goal of the program.

As far as medical cell biology is concerned, the core of a group already exists in the Department of Medical Biophysics, which is in the Princess Margaret Hospital. A brief from the Faculty of Medicine recently pointed out, however, that this arrangement has had disadvantages for a number of reasons. Geographically, it placed the group half a mile from the main Campus; the interest of the Department of Medical Biophysics was necessarily limited to certain areas of the fields; and it was desirable that the teaching of these subjects be undertaken by a unit housed in the new Medical Sciences building.

The new Department of Preventive Medicine will be a joint enterprise involving the Faculty of Medicine and the School of Hygiene. There will be a single chairman but two component parts—one housed in the Faculty or its associated teaching hospitals and the other in the School. The chairman and not more than three other full-time staff members will be accommodated in space controlled by the Faculty. The rest will be in space controlled by the School. All appointments will be joint ones, approved by both the Dean of Medicine and the Director of the School of Hygiene.

While the contribution of the Faculty towards teaching and research will be concerned mostly with disease at the individual level, that of the School will include the teaching of such subjects as the multiple causation of disease (host-agent-environment); the effects on man of light, heat, noise, radiation and water and air pollution; the industrial environment and the health of the worker; the role of accidents in the causation of disease and disability; the organization of services to deliver health care; and the concept of the "health team".

President's Council elections held

Elections have been completed to fill the vacancies among the elected academic representatives on the President's Council caused by the forthcoming retirement from the Council of Profs. J. B. Conacher, L. E. Lynch, J. C. Laidlaw and G. C. Walker. The following have been elected for the period July 1, 1969, to June 30, 1972:

Profs. R. A. Greene, Department of English, University College, and R. A. Spencer, Department of History (Constituency A); Prof. K. J. R. Wightman, Department of Medicine (Constituency B); Prof. M. Jean Wilson, School of Nursing (Constituency E).

The other three academic representatives are Profs. P. G. Rooney, Department of Mathematics (Constituency A); W. H. Rapson, Department of Chemical Engineering (Constituency C); and J. B. Milner, Faculty of Law (Constituency D).

COMING EVENTS

MAY

29 THURSDAY

Lectures

School of Graduate Studies and Department of Physics. "Can Single Photons Interfere?" Prof. Leonard Mandel, Department of Physics and Astronomy, University of Rochester. Room 102, McLennan Physical Laboratories. 3.30 p.m. Tea 3.10-3.25 p.m.

School of Graduate Studies and Department of Chemistry. "Some Unimolecular and Bimolecular Reactions of Gaseous Ions". Dr. K. Jennings, University of Sheffield. Room 158, Lash Miller Chemical Laboratories. 2 p.m.

School of Graduate Studies and Department of Mechanical Engineering. "Some Notes on a Method of Calculation in Modal Control". Dr. A. Simpson, University of Bristol. Room 254, Mechanical Building. 4.10 p.m.

Banting and Best Department of Medical Research. "Regulation of Lipogenesis in Liver Slices of Newly Hatched Chicks". Dr. A. G. Goodridge, Room 417, Charles H. Best Institute. 12.30 p.m. Luncheon at nominal cost.

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Seminar

Council of Universities of Ontario proposed by Ontario Presidents

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trators and academics in all the provincial universities, all of which supported the need for establishment of an effective centralized research organization to serve the universities.

The basic problem faced by the Ontario universities presents an apparent paradox. Autonomy of individual institutions is looked upon as being highly desirable and the concept of a University of Ontario has been rejected. At the same time the universities recognize the necessity of coordination and system-wide planning which implies a capacity for the collectivity to make judgments which infringe on the autonomy of individual institutions. How can such a paradox be resolved?

Two approaches seem possible. The first, and the conventional approach followed in many jurisdictions, would begin by attempting to define those areas of decision-making which can and should be reserved for individual universities and those which require a provincial approach. Such definitions are not easy and in fact the difficulty of making them accounts for much of the frustration inherent in systems of public university education. For example, the academic philosophy and goals of a university require that the institution be able to define its admissions requirements and select its student body. At the same time the province and its universities must agree on some overall goals for university-level education and manpower requirements. Individual campus aspirations and provincial requirements will not necessarily be compatible.

Assuming nevertheless that some workable (if less than ideal) division of responsibilities were achieved, the next step in the conventional solution would be to seek through legislation to give the universities' central body, the Committee of Presidents, the necessary authority to make collective decisions binding on its members. If this legislation were imposed by the government, whatever the structure of the governing body—the Committee of Presidents or its successor, the province would have, in fact if not in name, the University of Ontario. If the universities themselves sought to delegate to the CPUO authority to make binding decisions, with the best of will, they would run into a host of problems. The Boards of 14 universities would have to examine their individual University Acts or Charters and determine first, their authority to delegate to some outside body, decision-making for which they are legally responsible, and second, their willingness to do so. On both points difficulties would arise. Amendments to individual University Acts would be required, and neither Boards nor Senates are likely to preside happily over dissolution of some of their important powers.

In short, the road toward legislated centralized authority for decision-making is a rocky one.

The second approach to a meaningful collective autonomy is not only more feasible but also more attractive. It is based on the aphorism that "knowledge is power." It would depend on developing a capacity to examine issues on the basis of careful and competent research and analysis. Whether the issue is operating costs, capital requirements, enrolment projections, manpower needs, salaries and benefits, or library systems, the only sound basis for making decisions is through analysis of the problem and clear exposition of the alternatives. If the CPUO develops a capability for such examination of issues the need for legislative authority would diminish. The universities would have acquired the power of credible collective judgment while rejecting the power of legislative authority. The only coercion would be the coercion of logic, and individual universities would find it difficult (though not impossible) to reject the collective judgment. At the same time and by the same token the power of the universities to speak effectively to government would be enormously increased. If the facts are assembled, competently organized and

presented they will sometimes disclose obvious conclusions and lead to predictable policies; they will at least array the alternatives which will then depend on political or philosophic judgments. The area for debate will thus be greatly narrowed.

What follows is a proposal for changes in structure of the collectivity and its staff operations to accomplish two principal objectives. The first is to provide a structure which will constitute an acceptable voice of the university community, both to its constituent members, faculty and students on the one hand, and to the public and the government on the other. The second is to provide a structure capable of sophisticated and efficient analysis followed by the capacity to reach agreed collective policies expeditiously. The first objective requires an approach to organization which will involve every part of the university constituency in appropriate ways. The yearning for a role in decision-making for those affected by decisions is deep-seated and genuine. Developing instruments for satisfying this need is fundamental to acceptability of any system. Equally important is the recognition that administrative responsibility must be expressed through the appointment of individuals with appropriate roles in the decision-making process. The proposals which follow are designed to recognize both the essential merit of broad participation by the whole university community and the responsibility of administrators.

The second objective requires full-time analysts qualified to accomplish the required staff work and to provide the factual background against which judgments must be made. Essential to the staff work is interaction with the universities about the nature of the data which are relevant. Also fundamental to the staff task is a recognition of the "program-planning-budgeting" technique by which financial decisions are being made by the provincial Treasury Board.

The CPUO organization, now consisting almost solely of part-time committees, simply cannot design and operate the system for collecting and maintaining the up-to-date information that it needs—information on enrolment, student affairs, capital and operating requirements, library resources, etc. A committee structure without staff support cannot cope with the operational needs of the system for research and information. People on subcommittees are greatly overworked—with much of the time spent in communication and discussion. There is need for this communication but there is also the danger (and the historical fact) that while discussions are going on judgments which ought to be made within the system are made by government.

Symptomatic of our problems is the recent error in forecasting enrolment simply from the summation of each university's projected figures. We might take some consolation that this error resulted in more money to universities but it is probable that another such error may cause Treasury Board to question the operating grant system as it is now constituted. Add to this the difficulty in getting information to the Operating Grants Subcommittee in time for the annual submission and the desperate need for analysis of all capital submissions centrally if we are to have an effective voice in determining the scheme for allocation of capital grants.

Another recent example is the approval by CUA and DUA of a request for upgrading medical weights without a thoroughgoing review of that request by CPUO. No matter that the request may be entirely justified, the fact remains that it went forward without adequate review for the effect such a change might have on the system.

The proposed new structure represents an effort to rationalize the design and regroup the responsibilities now being met into a more functional arrangement:

1. It is proposed that the university collectivity in Ontario be designated "Council of Universities of Ontario"

rather than the present terminology, Committee of Presidents of Universities of Ontario. The reasons are obvious. The object is to create a collectivity representative of the universities. The term Committee of Presidents is not properly descriptive of the constituencies which must be involved. The term creates the unfortunate illusion of a group of executive administrators exercising independent authority with little input from the academic community. The term Council simultaneously emphasizes the independence of each university and the goal of cooperation.

2. The senior executive body of the Council of Universities shall be the Council. It shall be authorized to decide on policies to be recommended to individual universities and to government and to provide guidance to the Executive Director in carrying forward the purposes of the Council. Membership of the Council should be essentially the same as the *de facto* membership of the Committee of Presidents—the President and a colleague from each university. All members should have a vote. The arrangement should be formalized, with the colleague being elected by the senior academic body of each university (the Senate). The university should be free to choose as it sees fit including the privilege of selecting a student if it so wished. However, as a principle (applying to both the Council and the Committees) the choice of colleague should favour either an academic or student, the object being to provide for a balance of administrators and academics. Members once chosen should serve for a period of three years (or less in the case of a student leaving the university). It should not be possible for the President or colleague to send alternate representatives to the Council because the Council members must accept responsibility for the Council's judgments. It is not desir-

able for a university to be represented on Council by its "expert" on a particular agenda item. This device speaks for vested interest rather than judicial responsibility.

3. The Chairman of Council should be elected annually by Council from among the Presidents. He should preside at all meetings of Council. A Vice-Chairman of Council should be similarly elected and should substitute for the Chairman in his absence.

4. The term "Executive Director" should replace that of "Executive Vice-Chairman." The latter term is confusing to those not familiar with the organization. It is a handicap in approaching foundations in search of financial support. It tends to direct some of CPUO's correspondence to the Chairman on matters which should be dealt with by the staff. Of the 34 consortia of universities in North America, 15 use the title Executive Director or Director for their executive office. Thirteen use the title President.

The Executive Director should be directly responsible to the Council and should arrange to have information and proposals brought before the Council. He should be fully responsible for the operation of the CUO offices.

5. The Executive Director shall have available to him an advisory subcommittee on planning which shall assist him in examination and review of the operation of the affairs of the Council. The subcommittee shall be appointed by the Council on the recommendation of a nominating committee.

6. The design provides for a series of program committees with the primary responsibility of developing proposals about the relevant problems in the various areas of the universities' interests. The concerns of the universities are teaching, research and service. These

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Library Council recommends its own reorganization to Senate

A reorganization of the Library Council, which the Council has recommended to the Senate, calls for a reduction in its size from 75 to 35 members, of whom four-fifths would be elected, and an increase in the number of student members from four to at least twelve, approximately equal to the number of teachers to be elected.

"The effect of the recommendations", says the Council's report to Senate, "is to change from a two-tiered system (Council plus Executive Committee) to one tier (Council only)".

Under the proposed plan, the Library Council, now made up of *ex-officio* and appointed members, including four appointed by the Students' Administrative Council and the Graduate Students' Union, would consist of the following:

Ex-officio:

The President, who would be Chairman with the Provost as alternate.

The Vice-President through whom the Chief Librarian reports.

Four staff librarians, to be appointed annually by the Chief Librarian.

Elected:

Twenty-eight members elected to represent various constituencies, made up as follows:

Twelve representatives of the teaching staff, three to be elected from each of Humanities, Social Sciences, Physical Sciences, and Life Sciences, each constituency to include both the basic disciplines and the appropriate professional faculties and schools. They would be elected for three-year terms, not immediately renewable, and, within constituencies, the terms to be staggered to produce continuity of representation. Those eligible to vote would be full-time members of the teaching staff and all part-time teachers not eligible to vote as students.

Twelve representatives of the students registered in the following constituencies:

One student from each of the four divisions of the School of Graduate Studies;

One student in each of three areas of study in the Faculty of Arts and Science—Humanities, Social Sciences, Science;

One in the Faculty of Applied Science and Engineering;

One in the Faculty of Medicine, including the Division of Post-Graduate Medical Education;

One representing the other health sciences and professions—Dentistry, Food Science, Hygiene, Nursing, Pharmacy, Physical and Health Education, Physical and Occupational Therapy;

One representing the other professions—Architecture, Business, Child Study, Education, Forestry, Law, Library Science, Music, Social Work;

One student in an Extension degree course.

Student representatives would be elected for one year and be eligible for re-election for a maximum of three consecutive terms. All full-time and part-time students in degree or diploma courses, except Extension students, who must be in degree courses, would be eligible to vote.

Scarborough and Erindale Colleges would have one representative each, elected for one year, renewable for a maximum of three consecutive terms. Their members may be teachers, students, or librarians.

The Federated Universities would be represented by one person, elected by members of the Senate from these universities. Election would be for two years, not immediately renewable.

Alumni would be represented by one of their Senate members, elected for two years, not immediately renewable.

The new Council would have as assessors the Secretary of the Senate and three staff librarians appointed annually by the Chief Librarian.

The present Council has recommended that all regular elections be held in the spring, and that student candidates run in the constituency in which he or she intends to register in the following academic year.

It has also been recommended that the Library Council meet regularly each month except in July and August and that it continue its present practice of holding open meetings which all members of the University may attend as observers.

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functions are performed through the various divisions of the university. The four proposed program committees represent major divisions—arts and science, health, other professions, and graduate studies. At least initially these program committees can be expected to cope with the fabrication of proposed policies for the provincial system. Experience may indicate the need to subdivide one or more of these program committees. Recommendations of the program committees will be forwarded to the Council and if adopted will become a policy of the Council for the guidance of individual universities and for advice to the government.

The intention is that each program committee will be responsible for reviewing all matters bearing on the purposes of the universities when these matters involve province-wide considerations. The program committees will be expected to formulate policies and not simply identify problems for referral to Council. At the same time, each program committee should confine itself to matters related to its descriptive title and leave to Council issues of university-wide concern. A precise definition of the range of responsibilities for each program committee and its coordinator should be worked out as the structure evolves. At this stage an indication of the kinds of issues to be dealt with should suffice. The following list therefore is illustrative rather than comprehensive.

A. Teaching Programs

1) Examining the range of offerings and recommending policies for further development, sharing of resources and cooperative programs; including opportunities for cooperative ETV and CAI.

2) Examining manpower requirements, enrolments, forecasts and admissions practices, and recommending policies.

3) Considering relations with CAATs and other post-secondary institutions with special reference to the development of complementary programs.

4) Examining operating parameters which affect the quality of education including provincial student-staff ratios, faculty salaries and benefits, library and computer resources, policies concerning non-academic support staff.

5) Examining and forecasting capital requirements; development and refinement of space standards.

6) Examining levels, conditions and adequacy of student support.

B. Research Programs

1) Reviewing range of research activity and identifying opportunities for cooperative enterprises.

2) Forecasting areas of development and funding requirements.

3) Recommending through the Council policy changes on the part of support agencies to improve performance and administration of research.

4) Assessing the extent of indirect costs.

C. Service

1) Examining ways in which the universities in concert can contribute to the solution of community problems.

2) Studying problems of access to universities.

7. Each Program Committee will be served by a member of the staff of the offices of the Council of Universities. The coordinator's duties will be to provide the necessary staff work for the Program Committee, to serve as liaison between the Program Committee and the resource analysis structure described below, and to serve as liaison vis-à-vis the coordinators of other program committees.

8. The Arts and Science Program Committee will be composed of one Dean or other senior officer in the field of arts and science from each university, appointed by the President for a three-year term renewable, plus one colleague (generally a faculty member or student) chosen by the Senate for a term of three years (less in the case of a student leaving the university).

9. The Health Sciences Program Com-

mittee will be composed of: 1) one Dean or other senior officer from each university having a Faculty or School in the Health Sciences (i.e. Medicine, Dentistry, Pharmacy, Nursing, Rehabilitation Medicine, Public Health, Veterinary Medicine, Optometry, Social Work). Such officer shall be appointed by the President; 2) one colleague from each university with a Health Sciences Faculty or School, chosen by Senate from among the staff and students in the Health Sciences Faculties and Schools. The term should be for three years (renewable in the case of the administrative member).

10. The Professional Schools Program Committee membership will be composed of: 1) one Dean or other senior administrative officer from each university having one or more professional faculties or schools (excluding Health Sciences). The administrative member will be chosen by the President; 2) one other member from each university having one or more professional schools, such member to be chosen by the Senate from the staff or students of the professional schools or faculties. The term should be for three years (renewable in the case of the administrative member).

11. The Graduate Studies Program Committee will be composed of the Dean of Graduate Studies in each university plus one colleague chosen by the Senate from the staff or graduate student body. The term should be for three years for the colleague.

12. The above represents proposals to provide for representative membership on program committees. In addition, to ensure essential expertise the Council should be free to appoint additional members to program committees on the recommendation of the nominating committee.

13. Each program division depends on a variety of resources. These are represented in the group of systems supervisors and subcommittees. The systems supervisors are responsible for collecting, sorting and analyzing the basic data required by the program committees and the Council. The systems supervisors will work under the direction of a Director of Research. Each systems supervisor will have available to him an advisory subcommittee which will review the approaches to data collection and analysis and will seek ways of improving the quality of the research function. It is necessary that these subcommittees reflect expertise. They need not be representative since they are not responsible for proposing policies.

14. The data bank supervisor will be responsible for development, maintenance and operation of the data bank. Since the key resource input of all programs is students he should also be responsible for enrolment analyses and should have available to him a subcommittee on enrolment and student affairs. The subcommittee should be appointed by the Council on the recommendation of a nominating committee.

15. The systems supervisor on operating grants should have an advisory subcommittee appointed by the Council on the recommendation of the nominating committee.

16. The systems supervisor on capital grants should have available to him an advisory subcommittee on capital grants appointed by the Council on the recommendation of the nominating committee.

17. The systems supervisor on libraries should have available an advisory subcommittee on libraries appointed by the Council on the recommendation of the nominating committee.

18. The systems supervisor on computers ETV and CAI should have available an advisory subcommittee on computers ETV and CAI appointed by the Council on the recommendation of the nominating committee.

19. It is visualized that the staff (administrators, coordinators and analysts) will number approximately 20 (plus secretarial support).

20. Each systems supervisor would provide data and analyses to the program committees and the Council.

The needs for full-time research in the areas of data bank, capital and operating grants are self-evident. Certainly, the part-time resources supplied by the universities suboptimally to these activities now must sum to at least the full-time resources if not much more. The analysis of operating needs by the Subcommittee on Operating Grants suffers by lack of current and historical information which would be supplied by the data bank. The collection of capital plans for analysis centrally has recently been recognized by CPUO in the authorization of a research position for analysis of these plans. The need for full-time research assistance on library resources and the use of modern electronic devices for educational purposes may be less evident on the surface but we believe there are strong reasons for providing these research resources on full-time basis. It could be argued that libraries, computers, ETV and CAI are programs or elements of programs and therefore should be either explicitly represented by program committees or subsumed under the four program committees. We would argue that these are *system resources* and that each of them represents a substantial investment which must be used by more than one university in the system to justify the investment. In each case it is necessary for the systems supervisor to provide information about the existence of the particular resources external to the system and internally within the system and to foster and give technical guidance in the use of these system resources by the universities in the achievement of program objectives.

Thus, the library system supervisor would provide undergraduate and graduate library committees and program committees with information on the extent of these resources at the various universities and he would begin to develop the methodology for library resource demand analysis and for analysis of library costs. He would also provide analytical support to program committees in their determinations of requirements for library resources by program—e.g. library resources required by the system for graduate studies in political science—location and extent of these library resources.

Similarly, the electronic aids systems supervisor (ETV and CAI) would provide the same sort of information and analytical support to program committees—including demand and cost

analysis. Educational television and computer-assisted instruction are two areas where there is both great fear and great misunderstanding. Views of each of these range from panacea to complete waste. Neither view is correct and it is essential to get the existence of these resources, their possibilities, benefits and limitations exposed for a fair appraisal.

While the structure is presented here in its entirety, the development of the research capacity is not something which could be achieved in a single giant step. It will have to be undertaken gradually over a period of perhaps two years or more, identifying priorities, and acquiring competent staff to meet the priorities in a phased development.

It should be emphasized that the proposed structure has a capacity to accomplish much more than quantitative analysis. The program committees and the Council should function as academic statesmen, considering philosophic, academic and cultural issues relevant to the welfare of our universities and our society. Many of the issues before them will be qualitative and will require judgments, not simply about what is the most economical approach, but what is the best and wisest approach in the interests of society.

Affiliates

There are at present a number of bodies affiliated to CPUO. These bodies would in general continue to exist and carry on their own programs. Bodies concerned with primary programs (such as the Deans of Law, the Deans of Medicine) would report through the appropriate program committee of the Council. Those concerned with support programs (such as OCUL, OUCAL) might make recommendations direct to the Council or through the program committees, depending on the substance of the recommendations.

Existing Subcommittees

A number of subcommittees now in existence are not covered in the above proposal. Some of them were established as *ad hoc* committees for specific purposes and will be discharged when their assignments are completed. Others become redundant because of the proposed new structure. Still others should be retained and made responsible to the appropriate body within the new structure. The Executive Director will review the status of all committees and make recommendations to the Council.

STAFF NOTES

The University

PROF. G. NORTHPROP FRYE is to receive an honorary Doctor of Letters degree from York University on May 30. On the following day Dr. Frye will receive a Doctor of Laws degree from the University of Victoria.

Arts and Science

DR. W. P. CARSTENS was recently elected a Fellow of the American Association for the Advancement of Science.

DR. D. R. HUGHES will present two papers, "A Report on the Results of the First Year of the Igloodik Project in the Canadian Arctic" and "An Analysis of Spectrophotometric Data Relating to the Skin Pigmentation and Sun-Tanning Potential of Igloodik Eskimos", at the Scandinavian Human Adaptability Conference in Oslo, June 5-6.

At the annual meeting of the Association for Asian Studies in Boston in April, DR. J. J. CHEW was elected to the executive committee of the Association of Teachers of Japanese.

DRS. S. NAGATA and S. WALLMAN attended the annual meeting of the Society for Applied Anthropology in Mexico City last month. Dr. Wallman presented a paper on "Conditions of Non-development in Lesotho".

PROFS. FERNIE, GARRISON, HEARD, KRONBERG, ROEDER and VAN DEN BERGH attended the meeting of the National Committee for Canada of the International Astronomical Union at the University of British Columbia, May 2-3. Five research papers were presented.

PROF. HELEN HOGG gave the opening address on May 4 of the Arts and Management Conference sponsored by the Toronto Business and Professional Women's Club.

PROF. R. F. GARRISON spent the last two weeks in April at the Mount Wilson and

Palomar Observatories where he observed for five nights with the 100-inch telescope.

PROF. J. B. JONES visited the Department of Chemistry, Trent University, on April 25 and presented a colloquium entitled "Chemical Studies Related to the Carcinogenicity of Lactones".

PROF. J. E. GUILLET has given the following lectures: "The Study of Macromolecules by Gas Chromatography" at the 5th Caribbean Chemical Convention, University of the West Indies, Barbados, on Jan. 8; "Photochemistry of Macromolecular Systems" at the Great Lakes Conference, Wayne State University, Detroit, March 18; "Stabilization Mechanisms of Macromolecules" at the Research Laboratories, Wyandotte Chemicals, Wyandotte, Mich., March 18; "The Study of Polymer Properties by Gas Chromatography" at the Polymer Corporation Research Laboratories, Sarnia, March 19; "Determination of Polymer Structure and Interactions by Gas Chromatography" at the Division of Applied Chemistry, NRC, April 11; "The Role of Energy Transfer in the Photostabilization of Polymers" at E. I. DuPont de Nemours Corporation Research Laboratories, Philadelphia, April 18. Prof. Guillet attended the symposium on Thermodynamic Properties of Bulk Polymers in Washington, March 10-12.

At the meeting of the American Oriental Society in New York, March 25-27, papers were read by the following members of the Department of East Asian Studies: P. BANDYOPADHYAY: "The Meaning of *Nāṭya* According to Bharata: A Note on Bhāṇu-kīrtanam"; PROF. D. B. WATERHOUSE: "A Canadian Collection of Japanese Prints" (Illustrated); PROF. B. A. STEPHEN: "Some Implications of Chariotry in Shang Dynasty China"; PROF. R. M. SMITH: "Some Epic Statistics"; PROF. T. VENKATACHARYA: "The Significance of the Expression *muṣṭindhaya*"; PROF. I. J. McMULLEN: "The Gengo Gaiden,

(See page 5, col. 1)

LIBRARY NEWS

Project Backlog

The University Library has hired some fifty students, for the summer, to reduce the backlog of work in the Technical Services area. Students were recruited through the University of Toronto Placement Service, and the project will begin during the second week of May, financed by accrued balances in the salary budgets of departments in that area. The students will work at certain tasks which can be learned quickly in the Catalogue Department, Technical Processing Department, and Searching Department. Some of the work will involve knowledge of foreign languages and cultures, and the rest will consist of searching, collating, typing, and filing.

This project is a part of the Library's effort to bring its work up to date.

Acquisitions in the Reference Department

Acquisitions in the Reference Department include the following G. K. Hall reprints of library catalogues:

- Z New York Public Library. The Research Libraries. Catalog of the N4 theatre and drama collections. 21 v. Gen.Ref. Part I [A] Drama collection: Listings by cultural origin. 6 v.
Part I [B] Drama collection: Author listing. 6 v.
Part II Theatre collection: Books on the theatre. 9 v.

Boston, G. K. Hall, 1967.

Note: Part I lists more than 120,000 plays written in Western languages and translations of plays originally published in the Cyrillic, Hebrew and Oriental alphabets. Part II notes over 23,500 volumes and includes index citations for selected periodical articles. "Theatre" is interpreted to include "stage, cinema, radio, television, carnivals, nightclub performances, the circus . . . and magic". Included are histories, biographies, books on production techniques and such unpublished material as prompt books, scripts, etc.

- Z William's Library, London. 7845 Early nonconformity 1566-1800: D62W5 a catalogue of books in Gen.Ref. Dr. William's Library. Author catalogue 5 v. Boston, G. K. Hall, 1968.

Note: This collection virtually covers the historic literature of Protestant Dissent in Britain. It includes books and pamphlets on nonconformity from Elizabethan Puritanism to the end of the eighteenth century.

- Z Institut für Zeitgeschichte, Munich. 929 Bibliothek. Alphabetischer M97 Katalog. 5 v. Gen.Ref.

- Z ——— Sachkatalog 6 v. 929 Boston, G. K. Hall, 1967. M972 Gen.Ref.

Note: This large specialized collection contains approximately 50,000 volumes on the history of National Socialism, the Third Reich and the Weimar Republic, as well as additional materials in related fields and contemporary history.

- AE Diccionario enciclopédico 65 U.T.E.H.A. 10 v. and Apendice D47 1-2 1964 Mexico. Union Tipografica Editorial Gen.Ref. Hispano Americana [c1964]

Note: This general encyclopedia is of particular value not only for its Latin American coverage but also for its scientific and biographical articles.

Staff News

Mrs. Phyllis Simson was appointed Head of the Technical Processing Department effective April 1, 1969.

Ritvars Bregzis, Mrs. Valentina de Bruin, Mrs. Brenda Brooks, Mrs. Jean Heathcote, Mrs. Maureen Hutchinson, Kenneth Frost, and Krishnan Khera attended the 1969 Clinic on Library Applications of Data Processing held at the University of Illinois, April 27-30.

Robert H. Blackburn, R. Gerald Prodrick, Mrs. Maureen Hutchinson and Miss Sheila Laidlaw attended the 67th annual meeting of the Ontario Library Association held at Laurentian University, Sudbury, from May 2 to 4. Robert Blackburn served as Parliamentarian for the conference, and Gerald Prodrick as chairman of the Nomination Committee.

Last fall Miss Margaret Slater was appointed member of the Board of Regents of Victoria University. On May 2-3 she attended the annual spring meeting of the Alumni Advisory Council as a representative of Victoria University on the University of Toronto Alumni Association.

Mrs. Velta Vitols and Jack Cain attended the MARC (Machine Readable Catalogue) Institute at the University of California, Los Angeles, on March 24 and 25. Jointly sponsored by the Information Systems Office of the Library of Congress and the Information Science and Automation Division of the

American Library Association, the Institute reviewed the MARC I Pilot Project, in which the University of Toronto and fifteen other libraries in North America participated. It also discussed the format for the coming MARC II Data Service which will begin by distributing all current cataloguing done at the Library of Congress. The MARC tapes will be used by the University of Toronto Library as a source of information to be incorporated in the Library's catalogue system. Once these procedures are developed, the University of Toronto Library plans to offer current searching of identified catalogue records, from the LC MARC tape, at cost to the federated colleges and to the thirteen provincially assisted Ontario universities.

Miss Beverly Proctor has been appointed chairman of the New York Chapter of the Music Library Association.

Visitors

The University Archives welcomed among their recent visitors Mrs. Clifton Moore of California, a descendant of Sir Charles Bagot, Governor-General of British North America and sixth Chancellor of the University, and Mrs. Marjorie Mueller of Sydney, Australia, granddaughter of the architect of University College, Sir Frederick Cumberland.

Among distinguished visitors to the Department of Rare Books and Special Collections were I. Bernard Cohen, Professor of the History of Science, Harvard University; Arthur Brown, new Director of the School of Librarianship, University College, University of London; and Miss Janet Agnew, Head Librarian, Bryn Mawr College.

Other departments were visited by G. G. Allen, Librarian of the Western Australian Institute of Technology; J. P. Sage, Librarian of Victoria University of Wellington, N.Z.; and J. E. Scrivener, Readers' Services Librarian at La Trobe University, Australia.

Prof. James Dolby of Los Altos, California, spoke in Toronto on "Linguistic Problems in Processing Library Catalogues" on Feb. 6 at a colloquium sponsored jointly by the Library and the Institute of Computer Science.

Library visitors also included four senior members of the Laval University Library (Feb. 27 and 28) and three of the Carleton University Library (March 7) to examine the administrative organization and work flow in the Technical Services area.

Exhibitions

Convocations past and present—a short look at Convocations throughout the history of the University, through manuscripts and photographs. University Archives, 45 Charles Street East. Through June 13.

Library Council asks establishment of Elections Office

The Library Council at a recent meeting decided to recommend to the President the establishment of a University Elections Office.

Such an Office, the Council said, "would provide the mechanism for elections to the new Library Council and to other elective bodies in the University. It would be anticipated that this Elections Office would consult with the Association of the Teaching Staff, the Graduate Students' Union, the Students' Administrative Council, and the Association of Part-time Undergraduate Degree Students in arranging for the conduct of these elections".

The Council decided also to propose to the Commission on University Government "that the proposed new structure and composition of the Library Council be incorporated in the future governmental structure, but that the structure and composition of the Library Council not be detailed in the University of Toronto Act".

4,000 rare school books

The Ontario Teachers' Federation has announced that its Centennial Library at 1260 Bay Street is open to all members of the University. The collection contains over 4,000 rare text books of British, American, and Canadian origin, published in the 18th and 19th centuries. It covers all levels from kindergarten to university, and all subjects. It includes some teachers' manuals and manuscripts, and a few museum pieces. This library is open for reference during office hours from Monday to Friday, and Saturday mornings.

SGS Council requests funds to aid financing of student theses

Summary of the minutes of the Council of the School of Graduate Studies meeting April 15, 1969:

The minutes of the meeting of March 18, 1969 were approved.

Dean's Report

The Dean reported that:

- the Senate had approved the establishment of a Ph.D. program in the History of Art on April 11, 1969;
- the Board of Governors had approved the School's request that the late application for admission fee be discontinued;
- the number of Canada Council fellowship winners who had indicated that they proposed to hold their awards at the University of Toronto now totalled 371, compared to 226 in March, 1968, the number of National Research Council student awards had decreased from 450 to 437, the number of Medical Research Council student awards had increased from 47 to 56, and that for the second consecutive year funds available for University of Toronto Fellowships had remained unchanged;
- the number of admission applications for the session 1969-70 at April 14 was approximately the same as at August 1, 1968 (6563).

Reports of Divisions

The Associate Dean, Division III, reported departmental concern about the distribution of Ontario Graduate Fellowships. The Executive Committee had been asked to help the departments to develop a rationale which would insure a fair distribution of the awards.

The Associate Dean, Division I, reported that:

- the Division had approved a motion of the Executive Committee that a requirement that Ph.D. candidates in Division I have knowledge of a language or languages other than English, as specified by the department concerned, be adopted as a desirable principle within the Division;
- the Degree Committee had recommended the admission to a two-year Master's program in French of a student who does not possess a university degree. Council approved the recommendation.

Report of Electoral Committee

Council approved the report of the Electoral Committee.

Council agreed that, in future elections, it should be noted on the sheet containing biographical outlines of candidates that the biographical information was furnished by the sponsors and approved by the nominees, thus absolving the School from all responsibility for it.

For information, the Chairman reported the results of the election of graduate student representatives to the President's Council, and the results of the Graduate Student Union elections.

Detailed information on these elections is contained in the minutes of the Divisional meetings which were published in the May 8, 1969, issue of the *Staff Bulletin*.

Report of Divisional Nominating Committees

The Chairman reported that Prof. J. H. Parker, Italian and Hispanic Languages and Literatures, had been elected to succeed Prof. Graham as Associate Dean, Division I; Prof. J. S. Dupré, Urban and Community Studies and Political Economy, had been elected to succeed Prof. Eastman as Associate Dean, Division II.

Council received the list of membership in the Executive and Degree Committees. Under the revised statute of the School, graduate student members and assessors become members of the Divisional Executive Committees. Membership in the Degree Committees is restricted by statute to Faculty.

Admission from New Arts and Science Programs

Council considered the report of the Committee set up to consider a motion (see summary of minutes of Council meeting held March 18, 1969) with respect to admissions to the School of Graduate Studies from the new Arts and Science programs. It approved in principle a recommendation governing admission from the new programs, the wording to be made final at the next meeting, when the Committee's recommendation on admission from other universities will be further considered.

Report of the Committee to Investigate Thesis Regulations

Council adopted the report of the Committee, which recommended that a basic guide-sheet should be provided to its students by each graduate department, institute, and centre including all pertinent information regarding thesis preparation, i.e., time limits, recommended style sheet, preparation, mechanics of departmental advisory and reading committees, etc., that Council request the central budget committee of the University to increase the allocation of funds to the School in order to allow it to make grants to students—either directly or through departments—to ease the financial burden of thesis preparation, that the School make available to students information regarding binding and reproduction, and that the requirements of the School not be broadened, since such problems as have been suggested can be solved within departments and lend themselves to consideration by staff/student committees.

Report of the Committee to Draft a Brief to the Commission on University Government

Council approved an outline of the proposed brief, the theme of which is the unitary graduate school. The completed brief is to be submitted to CUG before the May 1 deadline and then distributed to Council.

McCurdy Award to Prof. Etkin

Prof. Bernard Etkin (Aerospace Studies and Engineering Science) was the recipient of the McCurdy Award for 1968 at the annual meeting of the Canadian Aeronautics and Space Institute in Halifax on May 6.

The McCurdy is the premier award of the Institute, granted each year to a Canadian for outstanding contribution to aerospace engineering. The award is in memory of the Hon. J. A. D. McCurdy, a Toronto alumnus (Engineering) and former Lieutenant-Governor of Nova Scotia, who was the first Canadian to fly—the famous flight of Alexander Graham Bell's Silver Dart in Nova Scotia in 1908.

In receiving the award, Prof. Etkin was cited for his work in aerodynamics, aeroacoustics and flight mechanics—in particular for his advances to the theory of wings in supersonic flight and of flight in turbulence; for his invention of a means of stabilizing Earth satellites;

for his discovery of the cause of the spin decay of the Alouette 1 satellite and its correction on Alouette 2; for his book on flight dynamics, which has become a standard in three languages; and for his contributions to the education of a generation of aeronautical engineers in Canada.

House in London for rent

A doctor has a terraced house in London, England, to rent. It is eight years old, with garage, central heating, four bedrooms, open plan dining room and sitting room. The fittings are excellent; there is a built-in garbage disposal unit, dishwasher and refrigerator. It is close to St John's Wood tube station and north of Regent's Park.

For further information, phone Miss Wood at (416) 522-4971, extension 429 (McMaster University).

STAFF NOTES

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A Seventeenth-Century Confucian Commentary on the Tale of Genji".

PROF. D. B. WATERHOUSE attended a Disciplinary Conference on Japanese Art at the Fogg Art Museum, Harvard University, April 25 and 26, as an invited delegate, and acted as chairman for a discussion on *ukiyo* studies.

PROF. A. V. LIMAN gave a lecture on "Yasunari Kawabata—1968 Nobel Prize for Literature" and a seminar on "The Break with Tradition in Japanese Post-War Literature" at the University of Rochester, East Asian Language and Area Center, on April 29 and 30.

PROF. IAN BURTON, DR. KENNETH HEWITT and eight graduate students attended a two-day seminar on natural hazard research at Williamstown, Mass., March 29 and 30. The seminar reviewed research and formulated new proposals in the collaborative program of hazard studies being carried out jointly at Clark University, the University of Chicago and the University of Toronto, under the sponsorship of the U.S. National Science Foundation.

PROF. H. I. NELSON participated in a symposium on the Paris Peace Conference—Fifty Years Later, at Rhode Island College, Providence, on May 1.

PROF. NATALIE ZEMON DAVIS presented a paper to the North Central Renaissance Conference at Ann Arbor, April 12, entitled "The Reasons of Misrule: Popular Recreations, Social Order and Political Protest in 16th Century France". On April 29, she gave a lecture at Carleton College, Northfield, Minn., on the subject of "Growth and Disorder in Renaissance Cities".

PROFS. B. M. CORRIGAN, H. NOCE and J. H. PARKER participated in the Third Annual Conference on Problems in Medieval Studies, "The Medieval Drama", which was held at the State University of New York at Binghamton, May 3-4.

PROF. BURTON S. KEIRSTEAD received the honorary degree of Doctor of Laws from Mount Allison University on May 12.

PROF. M. H. WATKINS attended a meeting of the Graduate Economics Association of M.I.T. on May 8 where he debated C. P. KINDLEBERGER on "U.S. Investment Abroad: Good or Bad?" On May 9 and 10 he participated in a conference on the International Corporation at the Sloan School of Management, M.I.T., where he read a paper on "Canada and U.S. Firms".

PROF. G. K. HELLEINER attended the conference on National Reconstruction and Development in Nigeria, held at the University of Ibadan, March 24-29, and served as an official discussant in the session on "Wages, Costs and Prices". He also attended the conference on the Teaching of Economics in Africa at the University College, Dar es Salaam, Tanzania, March 31 to April 4, and served as a panel member at the final session evaluating the results of the conference. On April 18 Dr. Helleiner addressed a seminar at the Institute of Development Studies, University College, Nairobi, on "Economic Constraints on Socialist Development in Tanzania".

PROF. D. E. BERLYNE gave the following talks: on April 25 "La vigilance et le renforcement" at Laboratory of Neurophysiology, University of Lille, France; on April 29 "The Train of Thought", and on April 30 "Arousal and Reinforcement" at the Institute of General Psychology, Royal Danish School of Educational Studies, Copenhagen; and on May 1 "Uncertainty and Curiosity" at the Institute of Psychology, University of Aarhus, Denmark. Prof. Berlyne also gave a seminar "Arousal and Reinforcement" and a public lecture "Uncertainty and Curiosity" at the Faculty of Psychology and Educational Sciences, Catholic University of Louvain, Belgium, on May 7. On May 8 he gave the talk "Uncertainty and Curiosity" at the Psychological Laboratory, University of Amsterdam, Netherlands, and on May 9 a talk on "Motivational Effects on Visual Complexity" at Heymans Institute of General Psychology, University of Groningen, Netherlands.

PROF. GLEB ZEKULIN took part on April 25-26 in the symposium "The Soviet Rural Community", organized by the University of Illinois at Urbana-Champaign. He presented a paper under the title "The Contemporary Country-side in Soviet Literature: Search for New Values".

On April 25 and 26 PROF. RICHARD H. MARSHALL, JR. attended the North Eastern meeting of the American Association for the Advancement of Slavic Studies in Boston. He also participated as panelist in the meeting of the Advisory Committee on Religion in Area Studies Programs, held in conjunction with the AAASS meeting.

DR. D. W. DUNHAM gave an invited lecture on "The Application of Ethological Principles to Ornithological Field Work" in the Department of Biology, Universidad del

Valle, Cali, Colombia, on May 2. The talk was presented under the auspices of the Rockefeller Foundation.

St. Michael's College

SISTER CATHERINE GRISÉ has received a Canada Council grant of \$1,250 for research for three months during the summer. She will be working in Paris on Stoicism in the work of Tristan L'Hermite and on a critical edition of *Les Lettres Meslées* of Tristan L'Hermite.

Pontifical Institute of Mediaeval Studies

PROF. L. K. SHOOK attended, as English-language delegate for Canada, the Roman Congress of Catholic Universities, held in the Vatican, April 25 to May 1. Prof. Shook conducted a seminar on methods of pursuing medieval studies with members of the faculty of Odense University, Denmark, on May 6.

PROF. ARMAND MAURER attended the annual meeting of the American Catholic Philosophical Association in New York, April 7 to 9.

Medicine

DR. JOHN CAMPBELL was invited to lecture at the Royal Victoria Hospital, Montreal, on the course, "Recent Advances in Nephrology and Urology", May 26-28. He spoke on "The Role of Intravenous Urography in Infectious Renal Disease" and on "Radiological Investigation of Renal Hypertension", and also conducted two group seminars in renal radiology for nephrologists.

Applied Science and Engineering

PROF. S. SANDLER was invited to lecture to the Sheridan Park Association on April 15. He spoke on "Advances in Opticometric Methods of Chemical Analysis".

PROF. G. W. HEINKE attended the 12th Conference on Great Lakes Research, University of Michigan, May 5-7, where he presented a paper titled "Hydrolysis of Condensed Phosphates in Great Lakes Waters". He also attended the 24th Industrial Waste Conference, Purdue University, Lafayette, Ind., May 7-8, where he presented a paper titled "Hydrolysis of Condensed Phosphates in Wastewater". Both papers are based on his doctoral research recently completed at McMaster University, Department of Chemical Engineering.

DR. PAUL P. BIRINGER was an invited speaker at the International Convention on Magnetism (Intermag) in Amsterdam on April 16. His topic was "Static Frequency Changers". He gave another paper at the same convention on "The Stability Limits of Frequency Changers". On April 28, he gave a lecture at the Research Institute for Automatic Control of the Hungarian Academy of Science in Budapest on "Theoretical and Practical Problems of High Power Solid State Inverters".

PROF. I. W. SMITH attended the First Computer Aided Design Conference of the Institutions of Electrical and Mechanical Engineers in Southampton, England, during the week of April 14. He also attended the A.S.M.E. Design Conference in New York, May 5 to 8.

DRS. D. L. ALLEN and B. TABARROK attended the 2nd A.S.M.E. Vibrations Conference in Philadelphia, March 31-April 2, and discussed arrangements for the next Vibration Conference which is to be held in Toronto in 1971.

Education

PROF. G. A. REID attended the annual convention of the Ontario Business and Commerce Teachers' Association held during the O.E.A. meeting in Toronto. He was a member of a panel of teachers and students discussing the effectiveness of the Business and Commerce program in Ontario schools. Prof. Reid was guest speaker at the annual convention of the British Columbia Teachers' Federation held in Vancouver, April 7 to 9. His topic was "The Influence of Developments in Technology on the Teaching of Modern Office Procedures".

At the conference of the Association of Professors of Education to be held June 2 to 4 at York University, PROF. S. L. KONG will present a paper on "Toward a Realistic Approach to Educational Psychology for Teachers".

PROFS. D. L. MUMFORD and D. W. ALEXANDER attended the National Council of Teachers of Mathematics annual meeting in Minneapolis, April 23-26.

The Department of Physical and Health Education held the second annual conference on Health Education at Geneva Park, March 28-30. PROFS. ARMSTRONG and

LIFE organized and operated the conference, which was attended by 140 teachers and administrators.

PROF. R. C. GOODE attended the annual meeting of the Society for Experimental Biologists and American Association of Health, Physical Education and Recreation held in Atlantic City and Boston from April 11 to 18. On April 21 Prof. Goode spoke on "Why Risk Heart Attack?" at a meeting sponsored by the Ontario Heart Foundation and the North York Adult Education Department.

PROF. H. O. BARRETT attended the Annual Assembly of O.S.S.T.F. in Hamilton, March 19-22, and was again appointed to the Provincial Advisory Board of O.S.S.T.F.

PROF. J. W. GREIG participated in a Study Conference on the Hall-Dennis Report, Peterborough County, March 29, sponsored by O.T.F. Prof. Greig was invited to give an address on the Report at Trent University in April.

PROF. DAVID CLEE was the opening speaker of a four-day Education Conference held in Ottawa dealing with Communications and Educational Media and sponsored by the Registered Nurses' Association of Ontario. On March 23 Prof. Clee spoke at a conference of the teaching staff of the Clarke Institute of Psychiatry.

During the O.E.A. proceedings on March 17, PROF. J. H. STEVENS was chairman of a panel that discussed the topic "English: A Discipline or Your Own Thing". PROF. JOHAN AITKEN was also a member of the panel.

During the week of March 30, PROFS. BEDAL and EARDLEY attended the 1969 Convention of the American Personnel and Guidance Association held in Las Vegas.

PROF. R. P. BOWLES spent two weeks teaching Indian students at the Blood Reserve near Calgary. Purpose of the trip was to observe Indian students' reactions to a list of materials which had been prepared about their people.

On March 26 PROF. W. W. SAWYER spoke to Brantford and District Mathematics teachers on the ungraded school and continuous progress.

PROF. D. W. ALEXANDER was convention chairman for the 1969 Annual Convention of the Ontario Association of Teachers of Mathematics held on March 16, 17 and 18. He was elected president for 1969-70.

PROF. G. A. KIRK attended the first international meeting of the Ontario Modern Language Teachers' Association and the New York State Federation of Foreign Language Teachers in Buffalo, March 20-22. He introduced the speaker, PROF. WALTER BAUER, in the German section, and took part in an invitational meeting on Teacher Preparation.

PROF. K. I. BRAY attended the biennial conference of the Canadian Music Educators' Association in Regina, April 9-12.

On Feb. 14, PROF. JANET ARMSTRONG conducted a program on judging and advanced coaching techniques in Women's Gymnastics at a Professional Development Day in Guelph. On March 8, she held a Track and Field Workshop at COE which was attended by 120 women teachers.

PROF. A. W. FRIZZELL was a member of the panel presided over by WALTER PITMAN which led a discussion on "The Impact of the Hall-Dennis Report on Vocational Education".

R. J. MOOREFIELD and H. HAINSWORTH attended the First International Conference of the New York State Federation of Foreign Language Teachers and the Ontario Modern Language Teachers' Association held in Buffalo, March 20-22. Mr. Moorefield was elected secretary of the OMCTA for the coming year.

Music

PROF. CHRISTOPH WOLFF gave lectures at the University of Chicago on April 8 and at Brandeis University on April 23 entitled "J. S. Bach's Late Works and the Tradition of the Palestrina Style". Prof. Wolff also presented a colloquium at the University of Chicago entitled "Many Problems of Present Bach Research" on April 8, and a seminar at Brandeis University entitled "Bach's 'Musical Opening'" on April 24.

Ontario Institute for Studies in Education

PROF. BRIAN CRITTENDEN attended the 25th annual meeting of the Philosophy of Education Society, in Denver, March 30 to April 2. He was a member of the program committee for this meeting, and was also elected to the executive board of the society.

DR. V. R. D'OYLEY attended a preliminary discussion on setting up a College of the Bahamas, in Nassau, Feb. 27 to March 2. He also attended the Service for Admission to College and University annual meeting in Ottawa, March 20 to 21.

DRS. DOROTHY HORN and ALEX EVEN attended the Michigan School Testing Conference in Ann Arbor, March 4-5. Dr. Even also attended the National Science Teachers Association Annual Conference in Dallas, Texas, March 20 to 25.

DR. J. S. KATZ has been awarded a grant

from the British Council, British High Commission, to spend the month of May in the United Kingdom studying the teaching of film.

M. A. LEVIN was involved in the following activities: Jan. 25, "Teaching Controversial Issues in the Secondary School: Harvard Project Social Studies", presented at the Ontario History and Economics Teachers Association conference; Jan. 28, "Student Power and Student Involvement: Issues and Opportunities", a panel discussion conducted at the Canadian Council for Research in Education and the Canadian Educational Research Association annual conference with Dr. M. P. ROBBINS of OISE and M. GIBBONS of Simon Fraser University; Feb. 7, "The Analysis of Public Controversy: A Focus for Curriculum Development in the Social Studies", presentation and seminar with History teachers on Professional Development Day, Scarborough; Feb. 18, "Issues and Trends in Social Studies Curriculum Development", a panel discussion conducted for History Teachers' Professional Development Conference, Ottawa; and "Discussing Controversial Issues in the Classroom: The Harvard Project", presentation and seminar.

DR. H. G. NARROL addressed a Psychology colloquium at Queen's University, on "Behaviour Modification in the Classroom", March 17.

DR. R. P. McDONALD attended the Eastern Psychological Association Annual Meeting in Philadelphia, April 10 to 12. He gave a seminar at the Educational Testing Service, Princeton, on "Problems of Estimation and Algorithms in a Generalized Factor Analysis" April 16. Dr. McDonald also addressed the Psychometric Society spring meeting, Princeton, on "A Generalized Factor Analysis Based on Residual Covariance Matrices of Prescribed Structure" April 18.

DR. S. B. KHAN delivered a paper on "Dimensions of Manifest Anxiety" at the 12th Inter-American Congress of Psychology, Montevideo, Uruguay, sponsored by the Social Sciences Research Council of Canada, March 30 to April 6. He also visited the Centre for Psychological Tests and Centre for Pedagogical Research, Rio de Janeiro, April 7, and the Department of Psychology, University of Brazilia, Brazil, April 9.

DR. L. D. McLEAN attended the American Educational Research Association Long-Range Planning Committee meeting, Chicago, April 24-25.

DR. E. H. HUMPHREYS attended the conference on "Values in the Social Studies: Analysis and Teaching" sponsored by the Social Science Education Consortium Inc., in St. Louis, April 13-14. He also addressed the annual conference of the Canadian Association for the Social Studies and the Alberta Social Studies Council on "A Canadian Studies Program", in Calgary, April 10.

Pharmacy

DR. ERNST W. STIEB was an invited speaker for the annual meeting of the Ontario College of Pharmacy, District 13, in Listowel, Ont. on April 30.

Social Work

DR. BEN SHAPIRO attended the National Conference on Community Development, OISE, Toronto, Feb. 12-13; lectured in the Staff Training Institute at the Canadian National Institute for the Blind on "Social Group Work" February-March; was resource person in a workshop on Innovations in Education at the National Conference of Students in Social Welfare, Toronto, Feb. 15; conducted a workshop for the Family Association staff on "Working with the Community", Toronto, Feb. 20. He also attended a Workshop on Current Approaches to the Teaching of Methods in Social Work Practice, sponsored by the Council on Social Work Education and Case Western Reserve University, Cleveland, March 26-29; and conducted a seminar on "Working with Groups" for YWCA volunteers, Toronto, March 10.

DR. SHAPIRO also was co-ordinator of the plenary session of the annual meeting of the Ontario Association of Professional Social Workers, April 25, and attended the Workshop on Integrative Teaching, Council on Social Work Education, Atlanta, April 30 to May 3.

DR. CAMILLE LAMBERT is serving on the Career Recruitment Committee of the Metropolitan Toronto Association of Professional Social Workers; on the Committee for the City of Toronto for the Canadian Indian-Eskimo Association; as consultant to the Cost-Benefit Study of the Legal Aid Department, Province of Ontario; and as consultant to the *ad hoc* Study Committee of the Canadian Association for the Mentally Retarded. He has been appointed to the Board of the Metropolitan Toronto Social Planning Council; and participated on April 21 in a panel discussion at the Student-Alumni-Faculty Institute.

DR. B. SCHLESINGER delivered the following talks: April 12 at the Osler School of Nursing, on "Dating, Mating, and Mar-

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riage"; on April 17 to Intermediate Opportunity Class teachers, North York, on "The Family of the Opportunity School Child." Prof. Schlesinger also attended the Council on Social Work Education's Workshop on Integrative Teaching and Learning, in Atlanta. He has been re-elected to a four-year term to the Vanier Institute of the Family.

PROF. S. J. ALBERT became a member of the Board of Woodgreen Community Centre. He presented a paper to the Annual Conference of Children's Aid Societies in Toronto on "Community Determined Services", May 8.

DR. CHARLES E. HENDRY participated in a two-day meeting of the Advisory Committee on Legal Aid, and chaired the sub-committee on Cost-Benefit Analysis, April 15-16, in Toronto. He attended a meeting of the Board of Directors, Council on Social Work Education, New York City, April 17-18; met with officers of the International Society for Community Development, New York City, April 17; and participated in the Workshop on Integrative Teaching and Learning under the Council on Social Work Education, Atlanta.

Business

PROF. J. H. C. CRISPO addressed the Guelph Personnel Association on April 23 on "The Report of the Prime Minister's Task Force on Labour Relations". He also addressed the Winnipeg Electrical Industry Luncheon on May 8 on the subject of "Construction Labour Relations".

PROF. A. E. PAULL spoke on "Statistical Models in Marketing Research" to the Southern Ontario Chapter of the American Statistical Association at their luncheon meeting on May 1.

PROF. E. L. VITALIS spoke to the Toronto Western Hospital Workshop, March 26, on "Job Satisfaction".

Aerospace Studies

DR. G. N. PATTERSON attended meetings of the Science Council in Ottawa on Jan. 16 and 17, and on March 13 and 14 at the University of British Columbia. On March 14 Dr. Patterson made a study of management methods used by the Center of Materials Research and the Center for (Animal) Ecology at U.B.C. and on March 15 he accompanied the Science Council members on a visit to the Fisheries Research Board Laboratories at Nanaimo. Dr. Patterson attended a meeting of the Science Council Committee on Aeronautical Research and Development on March 21 in Ottawa. He made a presentation to the NRC Space Research Committee "Task Force on the Future of the Fort Churchill Range" on Jan. 20 at the Institute for Aerospace Studies with regard to future policy

for the Fort Churchill launching facility. On Jan. 21 Dr. Patterson attended a special combined meeting of the American Institute of Aeronautics and Astronautics and the American Society for Engineering Education in New York, to discuss co-operative methods of dealing with aerospace engineering education. Details of a meeting of the Aerospace Division of the ASEE in June of this year were completed. On Feb. 6 Dr. Patterson began a visit at the University of West Indies, Kingston, Jamaica. He had been requested to advise the University of West Indies on problems relevant to an upper atmospheric research station using a new laser beam technique. He gave a series of lectures on "Mechanics of Rarefied Gases", "Essential Factors in the Establishment of a Science Policy" and on "The UTIAS Research Program". The above lecture on Science Policy was also delivered to the staff of the Aerospace Laboratories of ARL at Wright-Patterson Air Force Base, Dayton, on March 10.

PROF. S. J. TOWNSEND, DR. R. GILPIN and C. HERSOM attended the 10th Symposium on the Engineering Aspects of Magneto-hydrodynamics at M.I.T., March 26-28.

On April 24-25, DR. TOWNSEND attended the semi-annual meeting of the Supersonic Tunnel Association at Wright-Patterson Air Force Base, Dayton, Ohio. He participated in discussions with the Air Force Propulsion Laboratory on MHD Power Generation.

Computer Science

DAVID B. WORTMAN from Stanford University delivered a colloquium to the Department entitled "A Computer Architecture for PL/1" on April 21.

Connaught Medical Research Laboratories

DR. S. LANDI was invited to attend the 16th Latin American Congress on Tuberculosis and Chest Diseases, held in Mexico City, April 12-18, and gave a paper entitled "Relationship between Tuberculin P.P.D. and P.P.D.-Battey Based on Their Skin Test Response in Humans". Dr. Landi also participated in round table discussions on "BCG Vaccine" and "Atypical Microbacteria".

DR. A. KOLIN attended the 53rd annual meeting of the Federation of American Societies for Experimental Biology, in Atlantic City, April 14-18, and gave a paper (co-author, Dr. S. Landi) entitled "Effects of Actinomycin D on the Tuberculin Skin Reaction in Guinea-pigs".

DR. R. J. WILSON will visit during June and July ten laboratories in South American countries as consultant to the Pan American Health Organization on the production of smallpox vaccine and other biologicals.

OISE participates in Conference of Professors of Education

Tuesday, June 3, will be a regular school day for the 17 preschoolers who attend the conceptual skills program conducted by the Ontario Institute for Studies in Education (OISE). But instead of the class being held in the Institute's Educational Clinic, it will take place before delegates attending the conference of the Canadian Association of Professors of Education (CAPE).

The conference, on "Do Education Professors Affect Education?", will be held at York University, June 2, 3 and 4. Dr. Alan Brown of OISE is President of CAPE and will chair the business portion of the conference.

Dr. Roby Kidd, Chairman of the Institute's Department of Adult Education, will give the closing address, entitled "The Other Professionals". In Dr. Kidd's words: "All the professional schools are in a state of ferment respecting the design of curricula and integration with practice, instructional methods and new materials and the continuing education of professional personnel. Faculties of education may contribute to this process and may benefit from demonstrations and innovations in these other schools".

Other conference presentations from OISE include: Dr. Michael Connelly, "Choices in the Selection of Theories of Enquiry for Purposes of Curriculum Construction"; Dr. Fred Rainsberry, "Humanities in the Changing Curriculum"; Dr. John Katz, "Film and the Human-

ties"; and Dr. Donald Musella, "A Model for Improving College and University Teaching".

On June 2 OISE will host a reception and buffet in Toronto's historic St. Lawrence Hall.

Assistant Director wanted to fill post vacant at ISC

Applications are invited for the position of Assistant Director of the International Student Centre, a post which will involve the incumbent in many aspects of University life.

The duties will include administrative assistance to the Director, Mrs. R. G. Riddell; overall management of the Centre, which is in Cumberland House, St. George Street; establishment and maintenance of contacts with both overseas and Canadian students; and organizing programs in close co-operation with the Student Committee of the Centre.

Candidates for the position must have a degree, preferably a good honours degree or the equivalent. Applications are to be in writing, addressed to the Personnel Office, 215 Huron Street, University of Toronto, Toronto 5. They should include a complete resume of educational qualifications and experience, state the salary expected, and list three references.

Commonwealth Scholarship Plan Annual Report released by AUC

The Eighth Annual Report of the Commonwealth Scholarship and Fellowship Plan has been released by the Association of Commonwealth Universities, London, England.

Commonwealth Scholarships are intended to provide opportunities for study overseas to young graduates of high intellectual promise who may be expected to make a significant contribution to life in their own countries on their return. The awards are normally tenable for two years' postgraduate study at universities or institutions where facilities do not exist for the study of a particular subject in the country of the candidate's permanent home. Commonwealth Visiting Fellowships or Professorships, which have been instituted by a few Commonwealth countries, are normally intended for senior scholars of established reputation and achievement.

In 1967-68 a total of 1,032 scholars held awards in 14 awarding countries. Of these 259 were in Canada, 42 at U of T. 77 Canadians held scholarships in other countries.

The Report may be purchased only from the Commonwealth Secretariat,

Printing Section, Marlborough House, Pall Mall, London, S.W.1, England. Price is 5s. (6s. by post).

Enquiries about the operation of the Plan in Canada should be addressed to AUCC, 151 Slater Street, Ottawa 4. Enquiries about the Plan as a whole should be addressed to the Association of Commonwealth Universities, 36 Gordon Square, London, W.C. 1, or to the Commonwealth Secretariat at Marlborough House, Pall Mall, London, S.W. 1.

Libraries receive \$113,000 from the Canada Council

Canada Council grants totalling \$113,000 have been given to three University of Toronto libraries. The University Library is to receive \$89,000, Victoria College Library \$16,000, and St. Michael's Library \$8,000.

The grants are included in allocations totalling \$1,000,000 to 34 Canadian universities and other institutions to help them build research collections in the humanities and social sciences.

Ph.D. Orals

Friday, June 6

Robert M. Hayashi, Department of Chemical Engineering. "A Study of the Propane-Steam Reaction at Low Temperatures". Thesis supervisor: Prof. W. F. Graydon. Room 201, 65 St. George Street. 10 a.m.

Monday, June 9

Rasul Azim Khan, Department of Zoology. "On Life Cycles of *Leucocytozoon Dubreuilii* Mathis and Leger, 1911 and *L. Fringillinarum* Woodcock, 1910 (Haemosporidia: Leucocytozoidae)". Thesis supervisor: Prof. A. M. Fallis. Room 201, 65 St. George Street. 10 a.m.

Lyle J. Etzwiler, Department of Philosophy. "John Baconthorpe's Relation to Averroism". Thesis supervisor: Prof. A. A. Maurer. Room 207, 65 St. George Street. 2 p.m.

Tuesday, June 17

Joseph Cunsolo, Department of Mathematics. "Ergodic Theory for Continuous Semi-Groups of Operators". Thesis supervisor: Prof. M. A. Akcoglu. Room 201, 65 St. George Street. 10 a.m.

Thursday, June 19

Paul Matthew Shallhorn, Department of Physics. "Magnetic Resonance in the Nitrogen Afterglow". Thesis supervisor: Prof. J. M. Anderson. Room 201, 65 St. George Street. 2 p.m.

All members of the Graduate Faculty have the right to attend Ph.D. Oral Examinations.

Friday, May 30

Hendrikus M. Aarden, Department of Geology. "Paragenesis of Some Nb,Zr. Rare Earth Minerals in Alkaline Rocks at Sheffield Lake, Quebec". Thesis supervisor: Prof. J. Gittins. Room 201, 65 St. George Street. 10 a.m.

Peter J. McLane, Department of Electrical Engineering. "Linear Optimal Estimation and Control of Linear Systems with State and Control-Dependent Noise". Thesis supervisor: Prof. I. McCausland. Room 201, 65 St. George Street. 2 p.m.

Wednesday, June 4

Michael Herren, Department of Classical Studies. "A Philological Commentary on the *Hisperica Famina*". Thesis supervisor: Prof. J. R. O'Donnell. Room 201, 65 St. George Street. 10 a.m.

Thursday, June 5

Edgar J. Dewar, Department of Chemical Engineering. "A Study of the Properties of Chlorine Exchange Resins". Thesis supervisor: Prof. M. Wayman. Room 201, 65 St. George Street. 10 a.m.

EXHIBITIONS

An exhibition of paintings of Marcel Barbeau is on display at Scarborough College until Monday, June 16. Visitors may see the exhibition between 9 a.m. and 9 p.m., Monday to Friday; 9 a.m. to 6 p.m. Saturdays; noon to 6 p.m. Sundays.

Marcel Barbeau, born in Montreal, studied arts and crafts at l'Ecole du Meuble, Montreal, where he also studied painting under Paul Borduas. He has held many one-man shows since 1953 and his work is to be seen in the permanent collections of some of the leading public art galleries in Canada, the United States, and Europe.

Exhibition of Woodcuts of Albrecht Dürer. The 18 woodcuts are from the volume published by Dürer in 1511. ROM Third Floor Rotunda to June 8.

"Minerals Magnified"—exhibition of colour photographs taken under magnification lenses. ROM Lower Rotunda until June 22.

Prize-winning photographs of 1968 by members of Toronto Focal Forum. ROM Lower Rotunda, June 24 to July 13.

The stamp corner features a collection of Costa Rican stamps with a history of illus-

trious owners. Originally given to Franklin D. Roosevelt and then sold to King Farouk of Egypt, the collection was later purchased by A. A. Weaver, Toronto. Lower Rotunda to June 30.

Arts of Forgotten Peoples exhibition shows utensils, crafts, weapons, religious and other objects of the major native culture areas of North America, Africa and Polynesia. Guided tours Monday-Friday at 2 and 3 p.m. Until June 22. ROM.

The Seven Years' War exhibition — historical paintings, portraits and drawings recall the mid-18th century conflict between France and Britain for possession of Canada. Included are memorabilia of General Wolfe. Sigmund Samuel Canadiana Building. Until June 29.

McLaughlin Planetarium. "Mars, Planet of Mystery". Until July 13. Tuesday to Friday, 3.30 and 8 p.m.; Saturday, 11 a.m., 2, 3.30, 5 and 8 p.m.; Sunday, 2, 3.30 and 5 p.m. Buy tickets in advance at the Planetarium Box Office. Adults \$1, students and children (8-14 years) 50¢. Children under eight years old not admitted to the Star Theatre.

Shastri Indo-Canadian Institute Fellowships

The Shastri Indo-Canadian Institute has established fellowships in the Social Sciences and Humanities, tenable in India.

Senior fellowships are for \$12,000 per annum for one year (post-doctoral) and \$6,000 (pre-doctoral) the latter for twelve months, with a possible extension of twelve months.

They are open to regular members of the teaching staff and students registered in Ph.D. programs of recognized Canadian institutions of higher learning. Closing date is November 1.

For further information get in touch with the President, Shastri Indo-Canadian Institute, McGill University, 3437 Peel Street, Montreal 112.

Appointed & Promoted

Erindale College

WILLIAM J. HUGGETT and IRWIN M. SPIGEL have been appointed Associate Deans of Erindale College, effective July 1.

Prof. Huggett received his B.A., M.A., and Ph.D. from the University of Toronto. He lectured at Carleton University and the University of Manitoba before coming to Erindale. His specialties are ethics and epistemology. Prof. Huggett was among the faculty who helped put together the Users' Report and has been closely associated with the building expansion program.

Prof. Spigel received his B.A. from New York University in communications. After ten years in the business world, including stints as a reporter, editor (Long Island Star Journal) and advertising manager, he returned to graduate school at Temple Uni-

versity in Philadelphia for his M.A. and Ph.D. in experimental psychology. Prof. Spigel's research interests centre on the role of stress in human communication, comparative and physiological psychology with emphasis on endocrine glands, electrolyte metabolism, stress and thirst.

The appointments of Profs. Huggett and Spigel strengthen the academic administration of the college at a time when it anticipates a doubling of student enrolment in the 1969-70 university year. They follow soon after the promotion of ASSOCIATE DEAN E. A. ROBINSON to the position of Dean. Dr. Robinson succeeded DEAN JOHN COLMAN, who transferred to a similar position at Scarborough College. Deans Robinson and Colman were among the first senior officers at the college when it opened in 1967.

COMING EVENTS

(Continued from page 1)

30 FRIDAY

Music

Music of Estonian composers. The Symphony Orchestra of University of Rochester. Director: Prof. Taavo Virkhaus, Eastman School of Music. Sponsored by U of T Estonian Students Association. Convocation Hall. 8.30 p.m. Tickets at Estonian House, 958 Broadview Ave., Toronto. Admission \$2.50.

31 SATURDAY

Estonian Song Festival. Celebrating 100th Anniversary of Estonian Song Festivals. United Mixed Choir of 1500 members from Canada and U.S.A. Sponsored by U of T Estonian Students Association. Varsity Arena. 3 p.m. Tickets at door. Admission \$1 to \$5.

JUNE

5 THURSDAY

Lecture

School of Graduate Studies and Department of Civil Engineering. "Ultimate-Strength Behaviour of Composite Beams for Buildings and Bridges". Prof. R. Paul Johnson, lecturer in Engineering, Cambridge University, and visiting professor at University of Missouri, Columbia. Room G120, Galbraith Building. 10.30 a.m.

10 TUESDAY

Lectures

Department of Astronomy. "Quasi-stellar Objects, I". Dr. Geoffrey R. Burbidge, Department of Physics, University of California, San Diego. Room 203, McLennan Physical Laboratories. 9.30 a.m.

Department of Astronomy. "General Relativity from a Physically Intuitive Viewpoint". Dr. Kip S. Thorne, Department of Physics, California Institute of Technology, Pasadena. Room 203, McLennan Physical Laboratories. 11 a.m.

Department of Astronomy. "Self-consistent Models of Galaxies, I". Dr. Kevin H. Prendergast, Department of Astronomy, Columbia University. Room 203, McLennan Physical Laboratories. 2 p.m.

Department of Astronomy. "Neutron Stars". Dr. Kip S. Thorne. Room 203, McLennan Physical Laboratories. 3.30 p.m.

11 WEDNESDAY

Lectures

Department of Astronomy. "Quasi-stellar Objects, II". Dr. Geoffrey R. Burbidge. Room 203, McLennan Physical Laboratories. 9.30 a.m.

Department of Astronomy. "Gravitational Waves". Dr. Kip S. Thorne. Room 203, McLennan Physical Laboratories. 11 a.m.

Department of Astronomy. "Solar X-rays, I". Dr. Herbert Friedman, U.S. Naval Research Laboratory, Washington. Room 203, McLennan Physical Laboratories. 2 p.m.

Department of Astronomy. "Self-consistent Models of Galaxies, II". Dr. Kevin H. Prendergast. Room 203, McLennan Physical Laboratories. 3.30 p.m.

12 THURSDAY

Lectures

Department of Astronomy. "Observational Cosmology, I". Dr. Geoffrey R. Burbidge. Room 203, McLennan Physical Laboratories. 9.30 a.m.

Department of Astronomy. "Solar X-rays, II". Dr. Herbert Friedman. Room 203, McLennan Physical Laboratories. 11 a.m.

Department of Astronomy. "Cosmic X-rays, I". Dr. Herbert Friedman. Room 203, McLennan Physical Laboratories. 2 p.m.

Department of Astronomy. "Self-consistent Models of Galaxies, III". Dr. Kevin H. Prendergast. Room 203, McLennan Physical Laboratories. 3.30 p.m.

School of Graduate Studies and Department of Chemistry. "Vibration-Vibration Energy Transfer in Gaseous Collisions". Dr. J. D. Lambert, Oxford University. Room 158, Lash Miller Chemical Laboratories. 4 p.m.

13 FRIDAY

Lectures

Department of Astronomy. "Observational Cosmology, II". Dr. Geoffrey R. Burbidge. Room 203, McLennan Physical Laboratories. 9.30 a.m.

Department of Astronomy. "Relativistic Star Clusters". Dr. Kip S. Thorne. Room 203, McLennan Physical Laboratories. 11 a.m.

Department of Astronomy. "Cosmic X-rays, II". Dr. Herbert Friedman. Room 203, McLennan Physical Laboratories. 2 p.m.

Department of Astronomy. "Models of X-ray Sources". Dr. Kevin H. Prendergast. Room 203, McLennan Physical Laboratories. 3.30 p.m.

18 WEDNESDAY

Colloquium

Department of Chemistry. "Mass Spectrometry of Aralkyl Compounds". Dr. N. M. M. Nibbering, University of Amsterdam. Room 158, Lash Miller Chemical Laboratories. 4 p.m.

St. George Graduate Residence holds formal opening ceremony

The St. George Graduate Residence at Bloor and St. George Streets "is the right thing at the right time", part of a comprehensive scheme to provide accommodation for graduate students on or near the campus. This was the comment of President Claude Bissell at the residence's formal opening ceremony.

In addition to the St. George Residence, Dr. Bissell said, the scheme included Wilson Hall, New College, for women; two high-rise apartment buildings at Yonge and Charles Streets, and "a large residence for single graduate students to the south of where we stand".

Dr. Bissell continued:

"We now accept the need for a variety of types of residential accommodation. There are two general categories: those on the University campus over which the University retains some general direction, and those off campus which are completely independent. For our own residences, particularly those designed for graduate students, we are moving towards a state of minimum supervision. We believe that residences should generate their own sense of order, their own environment for the pursuit of the scholarly life. The residential problem is the university problem in microcosm: the development of a way of life that has been shaped by all and is accepted by all".

Dr. Bissell congratulated all of those in the School of Graduate Studies "on this successful venture, particularly Dean Yates, who has a particular responsibility; Dean Sirluck, who has been constant and compelling in his urging of the needs of graduate students, and the Warden and Mrs. Alden".

Warden Robert T. H. Alden said in part:

"The original segmented apartment structure was maintained to avoid the institutional feeling that is unfortunately present in efficient long corridor design. Each apartment grouping contains bedroom studies and shared bathroom and kitchen. Part of the underground garage was converted to provide common rooms for recreation and socializing, removed from the study areas. This separation reflects the attention that must be paid to the needs for quiet study in a graduate residence.

"The residence is under the jurisdiction of the School of Graduate Studies. This is a fundamental relationship and should not be taken lightly. The academic responsibilities of the graduate student must receive the necessary and appropriate priorities in all matters concerning the residence.

"In this context, a comparison with Massey College might be made. As envisioned by the donor, the late Vincent Massey, the college was to exist to provide a unique place for study in a special

atmosphere incorporating the luxury and dignity of success, and the diversity and companionship of high calibre scholars from all corners of the world. . . . Massey College is a particular experiment within very special circumstances.

"A more recent experiment is the one pertaining to our high rise neighbour. While not within the framework of the University, Rochdale College exists in proximity to, and serves the needs of, some of the members of the University community. Comparison, it seems to me, is particularly inappropriate because Rochdale is a gigantic experiment in the social structure of living. . . .

"The third area where one might attempt comparison is surely that of the University undergraduate residences. Traditionally developed, generally on a college basis, they provide separate facilities for men and women students in their late teens and early twenties. The graduate residence accommodates senior students, who are often part-time members of staff, who must work under much higher academic pressures under much more variable conditions. Consequently, we operate on a monthly basis throughout the entire year. There is not such a marked difference between the carefree fall term and the sudden reversal to study preceding the spring finals. The lack of restriction in this residence is based on a demonstrated responsibility for this freedom.

"These comparisons, or perhaps the lack of them, are intended to demonstrate the particular facets of this newest member of the University community. We are a University residence within the framework of the corporate structure, but with different needs from our blood brothers. This is reflected not only in the administrative, but also in the daily life that exists inside these proud old walls."

Officer is needed for liaison work with high schools

The University of Toronto has an immediate opening for a Secondary School Liaison Officer, who will work under the direction of the Vice-President and Registrar.

Responsibilities will include the interpretation of educational trends in high schools to University faculties and schools; organization of visits by secondary school students and teachers to the campus; and the establishment of effective means of communication between the University and the high schools. The officer will be in contact with many phases of University academic administration and with educational developments in Ontario.

Applicants must have a good honours degree, preferably a graduate degree or its equivalent, and be willing to assume considerable responsibility. Applications, in writing, should state the salary desired, name three references, and be sent to the Vice-President and Registrar, Simcoe Hall, University of Toronto, Toronto 5.

Summer athletic facilities in Benson Building

The Department of Athletics and Physical Education—Women has a summer session open to staff members of the University, as well as to students, graduates and faculty wives, in tennis, golf, archery, folk dance, "slim and trim", badminton, field hockey, lacrosse and swimming.

Badminton, on Wednesdays from 6.30 to 8.30 p.m.; folk dance, on Tuesdays, from 7 to 9 p.m. and archery, Mondays from 6 to 8 p.m., are co-educational. The remainder of the program is available for women only.

Most activities will begin on June 2 at the Benson Building, 320 Huron Street, where brochures are available.

The Press

The following books have recently been published by the Press:

World Timbers, Volume One: Europe and Africa by B. J. Rendle. \$15.25.

Approaches to Paradise Lost edited by C. A. Patrides. \$9.50.

Wordsworth As Critic by W. J. B. Owen. \$7.50.

The Impact of Railways on Victorian Cities by John R. Kellett. \$11.50.

The Origins of Modern English Society 1780-1880 by Harold Perkin. \$8.25.

English Parish Clergy on the Eve of the Reformation by Peter Heath. \$6.50.

Browning's Voices in the Ring and the Book by Mary Rose Sullivan. \$7.50.

Canadian Books in Print/ Catalogue des livres canadiens en librairie 1968 edited by Gerald Simoneau. \$20.00.

Trade Liberalization and Transportation in International Trade by John M. Munro. \$4.50.

Trade Liberalization and the Canadian Steel Industry by Jacques Singer. \$4.00.

Alphabet Book by students of Kettle Point School, Kettle Point Indian Reserve, Ontario. \$1.25.

A Global Corporation: A History of the International Development of Massey-Ferguson Limited by Edward P. Neufeld. \$15.00.

John Strachan by J. L. H. Henderson. \$4.50.

Office of the Vice-President and Registrar

student services and enquiries

***Office of Admissions,
Room 112, Simcoe Hall***

This office will be glad to supply undergraduate students or prospective undergraduate students with information about courses, Colleges and Faculties, and with published information about the University, e.g., calendars.
Call or drop in (928-2190 or 928-2191)

***Student Enquiry Officer
Room 112, Simcoe Hall***

Mrs. Elizabeth Wilson in the Office of Admissions (telephone 928-2135) provides an information and counselling service for students and prospective students who are uncertain about the Faculties or Colleges which they want to attend

***Office of Student Awards,
Room 106, Simcoe Hall***

Advice and particulars about University awards—scholarships, prizes, bursaries, short-term loans—and about the Ontario Student Awards Program are available here. The office also acts as a clearing-house of information about graduate award opportunities elsewhere. (Telephones: University and other awards 928-2183; Ontario Student Awards Program 928-2204)

***Special Officer,
Secondary School Liaison,
Room 112, Simcoe Hall***

Dr. J. R. H. Morgan (928-2771) will be pleased to meet secondary school students who wish to make arrangements to visit the campus. Dr. Morgan is also available to consult with secondary school staff about school-university relationships.

***Office of Statistics
and Records,
Lower Examination Hall***

Students are asked to report name changes and marriages to this office and to apply for T.T.C. scholars' certificates (for those under 18 years of age) and student commuters' railway tickets (for those under 21). This office will also be glad to help student organizations which need occasional meeting space. Call or drop in. (928-2139)

***Housing Service,
49 St. George Street***

The Housing Service will be pleased to give all possible assistance to both students and staff who need living accommodation. Call 928-2542, or drop in

***Career Counselling
and Placement Centre,
581 Spadina Ave.***

Students seeking part-time employment, or those seeking full-time employment after graduation, are invited to apply to this office. Individual career counselling interviews may be arranged by appointment. Call 928-8590, or drop in

Health Service

Students seeking help by reason of accident, illness or emotional upset may contact the Health Service:
Men's division, 256 Huron St. 928-2459; Women's division, 256 Huron St. 928-2456;
Psychiatric Service, 2 Bancroft St. 928-2441; Infirmary, 42 St. George St. 928-2458;
Athletic injury and surgery Men, Hart House, 928-2425; after hours, Infirmary, 928-2458

***Advisory Bureau,
631 Spadina Ave.
(above Royal Bank)***

Students are welcome to see the Bureau about any or all concerns—from simple information questions through personal life problems. Call or drop in. (928-2684)

***International Student
Centre,
33 St. George Street***

All students are welcome. There is a varied program during the year—cultural evenings, discussions, trips, parties, visits with Canadian families—and there is a reception service for new overseas students. Call 928-2564, or drop in